WEST Search History

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DATE: Thursday, July 20, 2006

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ	
☐	L14	(parent and zombie and child and exit).clm.	1
☐	L13	(exit information same defunct).clm.	1
☐	L12	(parent same (defunct near child)).clm.	1
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L11	L8 and (collect$ near2 exit)	3
☐	L10	L8 and exit	15
		DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L9	L8	3
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L8	L7 and (defunct or zombie)	18
☐	L7	L6 and child process	564
☐	L6	parent process	2194
☐	L5	(717/131).ccls. and (defunct or zombie).ab.	0
☐	L4	(717/127).ccls. and (defunct or zombie).ab.	0
☐	L3	(717/121).ccls. and (defunct or zombie).ab.	0
☐	L2	(717/120 |717/121 |717/124 |717/125 |717/126 |717/127 |717/128 |717/129 |717/130 |717/131 |717/132 |717/133).ccls.	3071
☐	L1	20030037290	2

Interference Search (handwritten annotation)

END OF SEARCH HISTORY

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L14: Entry 1 of 1   File: PGPB   Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040255299
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DOCUMENT-IDENTIFIER: US 20040255299 A1

TITLE: System and method to improve harvesting of zombie processes in an operating system

PUBLICATION-DATE: December 16, 2004

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US-CL-CURRENT: 718/102

REPRESENTATIVE-FIGURES: 2A

ABSTRACT:

A system and method is provided for using a kernel exit routine, performed when a parent process exits, to efficiently remove zombie child processes. The kernel exit routine also re-parents active child processes to a standard system process, such as the init process. When the kernel exit routine re-parents the active child process to the init process, the child process is flagged indicating that the child's original parent process has already exited. A kernel routine, such as the swapper process, periodically cleans up flagged processes that have exited. In this manner, although active child processes are still re-parented to init, the init process is no longer burdened with the task of waiting on such processes when they exit.

BACKGROUND OF THE INVENTION

[0001] 1. Technical Field

[0002] The present invention relates in general to a system and method for harvesting zombie processes in an operating system. More particularly, the present invention relates to a system and method for harvesting zombie processes in a UNIX.TM. type operating system to improve overall system efficiency.

[0003] 2. Description of the Related Art